

=====

Sequence Listing was accepted.

See attached Validation Report.

If you need help call the Patent Electronic Business Center at (866)  
217-9197 (toll free).

Reviewer: Keisha Douglas

Timestamp: [year=2008; month=6; day=19; hr=12; min=12; sec=4; ms=288; ]

=====

Application No: 10533365 Version No: 1.1

Input Set:

Output Set:

Started: 2008-06-19 12:07:17.330  
Finished: 2008-06-19 12:07:24.418  
Elapsed: 0 hr(s) 0 min(s) 7 sec(s) 88 ms  
Total Warnings: 0  
Total Errors: 0  
No. of SeqIDs Defined: 236  
Actual SeqID Count: 236

# SEQUENCE LISTING

<110> Reynisdottir, Inga  
 Gulcher, Jeffrey R.  
 Grant, Struan F.  
 Thorleifsson, Gudmar

<120> Human Type II Diabetes Gene - Slit-3  
 Located on Chromosome 5q35

<130> 2345.2046-007

<140> 10/533,365

<141> 2005-11-09

<150> PCT/US03/34801

<151> 2003-10-31

<150> 60/423,541

<151> 2002-11-01

<160> 236

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 634888

<212> DNA

<213> homo sapiens

<400> 1

```

gctccccagc ccagcccca ggcggacctc cccggggcgcc acgccccatt gcgctcgccc 60
cagggtcccca acccggcccc cgggccagcg gggccagggg gcgctccgca cctgggcact 120
cccagcgatg cgcagcgggg cagcgccggc cccgccgatg gagctgctgt tgctgccgcc 180
ggcgcgcgcc ggagcgcgcc gctccgcccc cgccccgtgc gctgagcac cgagctcgcc 240
cctcctccgc gctaactccg ccgcccgcct cccaggccgc ccgcgctccc cgcgcgccct 300
ctcgggctcc acgcgtcttg cccgcagag gcagcctcct ccaggagcgg ggccctgcac 360
accatggccc ccgggtgggc aggggtcggc gccgccgtgc gcgcccgcct ggcgctggcc 420
ttggcgctgg cgagcgctct gagtgggcct ccagccgtcg cctgccccac caagtgtacc 480
tgctccgctg ccagcgtgga ctgccacggg ctgggcctcc gcgcggttcc tcggggcatc 540
ccccgcaacg ctgagcgctt gtgagtacc ctgccccacc ccacgcgggc caccacactg 600
gggtcccacc aggggggccc aggcgccaga tccgtccttt cccctcggcc tccctggatg 660
cagtctctat tctcatccct tcctggatac gatccctcac tctccgagct gggggtctgt 720
aggcttggtc agatctgga agagaggtct cgaaccccc agcgatgggc aaagagcagt 780
gcctctccag ggggtgagggt tcagacgca gggcccgtcg acagcttcca aggagtagct 840
gaggagaggc gaggggaggc aagagcactg cagcctcaag gtcttagggg gagggtcagg 900
gggtctgcgt cgttaaaaag gggggcgggc gaaggagaaa gctataggat gatgggccgt 960
caaggcgcgg agggcgggaga gagggcccga gactgttgac ctgcttgagg atcagaatgg 1020
gccagccgct ctctggctgc ccttgcaagg aaagttgaga gtgtgggtga aggtttaact 1080
tctgaggaac tggacagatt cagagtggtt gctcgcaaaa cccgctctgc ctggagcgca 1140
gtctgggaga tgccaagttg cagccccggg tgaatttttt atggctcggt tataaatgcc 1200
tccccgaacg aaggggcccg agaatggaaa tgctgacagc ccttcaaatg agaccgagcg 1260
ttataatctt acaaaccgca ctcagcctca gatcctgggc ttggcagcga atggagaggc 1320
gcttgagaaa tgggggtgat tgaccctagt tttagcccca attgtgcaac caaatattta 1380
cttttcatat gtcaacgttt tggaaacatt tatcattttg atcctcggac cagattcaaa 1440
acttgactc cgggggtggc tcctcttagt ccgcagttgg ggtggggtaa gggagtgggg 1500

```

gagaaacgct	ggagtgggtg	ggaagcctta	ctgggaaccc	agccgagaag	tgggtgaggg	1560
tttgctctag	tgtggtagat	tccctccgtg	tcttgctctc	cctcttctcc	ccttcctcat	1620
gtgccttagg	ggtaggcgcc	tggatcttcc	actctgcttt	cttgacttca	ggctggaaga	1680
gagtagtgat	gacaagcatt	gtcctagagt	gtgttattcc	tgctagtcac	ctcctatcac	1740
cccacctcct	cttctcttcc	acttctttgt	gcatctctgg	gtggagactc	agcagaactg	1800
tcttccttat	tectgggtgct	ctctttttcc	tttggtcag	tacttttttg	ttttccaca	1860
agtgcagtga	ttgttttggt	gggttgaacc	acagaatcct	aaagggtgag	agccgaatct	1920
ttattaacac	atgtcgaaaa	ccaggcttg	aagtgtaaaa	tgacttgccc	aagaaaacac	1980
agcaagttga	cggcaataaa	ggggctagaa	tccaggtttt	cacaccttaa	ttcagacatt	2040
aagttagtcc	ataggagtga	aaaacttggt	ttagtgggat	ttttagatac	ctataacttg	2100
taaactaagt	tcccctcctc	gtcacaccag	tgctagccac	atgagttagt	gaaataataa	2160
ttatagctaa	tgtttgataa	atgcttttca	tgcttgatt	tgtgtatatg	tattatctca	2220
ttgaatcact	ccaacagtcc	tgttagttac	ataggcaatg	cttattactc	cctttcacag	2280
ttaagccatc	ttgtcattta	ctcaagggtcg	tgcaagtagt	gaagtgtttg	gatccaagcc	2340
tgactggttc	ctaagcccac	aaccgttattc	actctcctgg	tcatccttgg	aacaagggtc	2400
agtttgggcc	acgatctata	aacagacagt	cttgggaggg	ttctggctgg	gcttggtatct	2460
tagaataggc	tgtgtttgct	tctgcttctg	gtataccctg	caaagtgtca	gctcactttg	2520
atgttaggtc	tgtgtcttgg	ggtctcgcaa	ctacatcttc	cgcacttcca	aaatcgtgct	2580
ccatgtttgg	gaaaccaaga	agagtaagtc	cctctcctcc	tgggtgtgtg	gaagttttcc	2640
agagctgcag	gaaccgcacc	catgccagca	tgccaccgag	tcatcttctc	taggggatct	2700
gtgcagctca	gggcaaccca	tcagctctag	aactggagaa	acaggacaga	gactggagtc	2760
ctggtcattc	ccagaggccc	cctgctgcag	tcgttaatag	gcagtggcag	agcaggagct	2820
tctttgatgt	ctctggtctc	ttctgcttca	gttgtgggtca	ctggtgccac	tttggccagg	2880
gtgcatgggg	gtgccgcgat	ggtatctcat	tctagtctcc	ttctccctg	ggaatggggg	2940
acagtctgtg	ggagcaagct	gggtcaggtt	cactgcaggg	tttcagggca	accaccaac	3000
agtccttcac	caccaaagtc	ctgcaccaca	ctctctctca	gccaaactcaa	atgtaacatt	3060
tcaattctga	aaactcttgg	gggatatttg	gcattttttac	tctctgccaa	ggatttcttc	3120
agaggaatca	ctcattttatt	cctgccttca	ttcattcaac	aaacattact	tgaagccggg	3180
cgcagtggct	catgcctgtt	atcccagcac	tttgggaggg	tgaggtgaga	ggatcgcttg	3240
agcctaggag	tttgagaaca	aacatgactt	gaacctctac	tgcatccag	aaactgtata	3300
tagaaccatt	gcaaatacag	aagaaaacca	gcacttcaat	gtaaaagaatg	taagcaaaaag	3360
atagaaggaa	acttgctttg	gtgagccttt	tgaacttccc	agggttcatg	ttgccatggg	3420
gcacgttttg	tcagcactgt	catcagatgc	tcaggacctt	cctaaaatcc	agttttctga	3480
tctcaaaggt	ttaaattgtg	ttttaaaaca	aagaaaactgc	attttctccg	ttctccattc	3540
ttggtactct	gcctcccaa	aaggctttga	tgaagggtt	tgtgtgtgtg	tgtgtctgtg	3600
tatatgtctt	ctctggatgt	ttttgacttc	tgaaaccttg	tgttatgaca	ttaaggaaaa	3660
cctgagtggg	gataatgtgc	tcaccatttg	gactttgctt	caggcctgga	atggggcctc	3720
aattgttcat	aattaagcca	gaatcagaat	tgggggggtct	gtgttccaag	atcttcccta	3780
taatgtcaga	acatcacgca	gaaaaagaaa	ctctgtcttt	tataaactac	tgacaatttt	3840
tccccctcca	tgaggaggtg	acaccacaa	gaaagctaaa	taaatgcaga	gaagaattca	3900
gtgtaattta	ttatccgtgc	agcaaagata	gaggacgaga	ggagagggaag	tggatggcgg	3960
tgctgaaac	caaacattta	ccatggagca	cagagtaaac	agatgttgca	cttacccttc	4020
tgactacaaa	aggagcccac	agatgtaatt	cttctccaac	cacaatctca	gcctggaaaa	4080
agaggaggca	gatgaaaatg	aactctcaca	cggggccact	tctccccatc	ttgccgtcct	4140
tgtctagagg	caggcagagg	cccacttctc	actgcagtga	gggggtggcct	gaacggtgga	4200
gtgggggcaa	gagtggacat	ctttgggtttt	tcacttggct	ctggaacatg	ctggagactg	4260
ctgtatttaa	ataaacattt	cctgtttgctg	aaggagaacg	ggcgaaaggc	tgaacgtga	4320
gaatgtggta	acttaatttt	ctccatcact	ccaaatgacg	gctagctttg	ccgggtggtg	4380
ggccaataa	aaactgacac	catgtcatag	gctttccctc	acttgaccac	agaggtcctg	4440
aggtcaagtg	agagactttc	caagatgtct	aacagccaag	tctctgtctc	agccctcagg	4500
gccagcttag	aggacaggaa	caagctagtg	aatcatgggg	tctctctggg	tcaaccacgg	4560
tgatgtggcc	ttttaggga	acacagtgcc	ctcctggaca	gactaaggag	cagctgagtg	4620
gaccgcctc	cagtggaccg	gtatagcctc	catgggtgctg	tgcaactctg	aacggattac	4680
attacctctc	tgggcctcat	tttcatgaaa	gtagaattct	tgtatagtct	tagtggtttt	4740
cttagtggtt	atagtcact	gggggaactg	taagtatccg	cctccctagt	gtctagaaca	4800
gtgctggca	cacagtaggt	gttcagcaga	tgtgtattta	ataaagggaat	aatgaacctc	4860
aaaactacaa	gtctgtcttt	agttcttaaa	agtgaagat	gggccattat	agatctgcat	4920

tctggcatat	gactaaggga	tctcactag	taacctatga	catgagttat	taagggtatc	4980
taaaatttgg	attttatgaa	ctaataattta	ttgccttact	agagttacca	aggactcctg	5040
ttgagtgatc	tactctggag	tctggttgcc	aggcattgct	tagcaacctt	gcaaaaactcc	5100
tactgtgcac	atgcccatga	aaagaactgg	aaatcctgag	cacttaaac	acagggtctt	5160
ctaatacagga	actcatcagc	gtcatcctga	gtgctctgtg	ggttttgatt	gctgctcttc	5220
ttgtattaat	tgataagttc	tgtttttgtt	gatcatctgg	attttctatt	atttctgcat	5280
ttttgccgtt	ttgattgtta	tgttgttttc	tctccagtat	tgtttgttgt	cacagagttc	5340
tgtctcacct	ggaaagtgag	aatgaacagt	gggttgagc	tgtagaacct	cttgcccttg	5400
caatgtgggc	tatggcaaga	aggttcccga	ccctaagca	tcgtggttag	ggcaggcgct	5460
cgggagacag	acgactgtgg	gtttgaattg	cagctctgtt	acatcttgct	gttgcaactgt	5520
gggcatgtta	cactattgct	gtggactgca	gtgtgttaaa	ttcttttagta	ccttatttcc	5580
acacctgtga	taccaggatg	atgagcgcac	ggcttctcatg	gggatgctgt	gaatgtagcc	5640
tgaggcagtc	cctgtaatgt	gctcagcacg	gtgcctacca	tgttgttcac	tcattgctgt	5700
gattgtttat	ccctctatga	tttcttaact	gtaaaaatag	tatgatgact	ctacccatt	5760
gggggggatta	aacaaaataa	tatacaggaa	agtgttaac	acagtacagt	catgtgttac	5820
ctaaaatgac	attctgggtca	acagtggaca	acatagagga	cgggtggtctc	ataagggttaa	5880
aatggagctg	aagaattcct	atgcctagt	gacatcgtag	cttttgtaat	gtcatagtgc	5940
catcacttta	tttttaataa	atttagtaca	gcctaagggt	atagtgttga	caaagtctac	6000
agtagtgtac	agtaatgtcc	taggccttca	cattcactca	gcactcactc	actgactcac	6060
ccagagcaac	ttccagtcct	gtaagcttta	ttcttggtaa	atgccctgtg	cagatgtacc	6120
attttttatc	tttcatacca	tactttgatg	gtaccttttc	tatgtatagg	tatgttgaga	6180
aacacacata	cttatgattg	tgtcacagtg	gcttacggta	ttctgtagag	gaacatgcta	6240
tgcaggtttg	gagcttagga	gcaataggct	atcacatcta	gcctagacgt	atagtaggct	6300
agaccatctg	ggctcgtgtg	agtgcactct	atgaggtttg	cacaatgacg	aaatcgcta	6360
atggtgagtt	tcttagaacg	tatccccatc	attaagtgat	gcatgacccc	accataggag	6420
ccctccctga	actattcatg	ttagtggcca	tggctattac	ctttatatct	tcactctcagg	6480
ccctatccag	ctggaagggt	tgagacgccc	atcctaaact	tgtccaacc	cagagccctg	6540
tgggaagcgac	ttccttgccct	gcctgtgggc	tatgcccaat	accctcttg	ctaggccct	6600
ccttttctct	ctctgctctt	ggctcctgcc	ccacagcaga	gccaggttg	gcttctgttc	6660
cataaaaagg	gaatttgtgt	gaaagtgggt	tatatctttt	ccatgggtgt	gttgctttgt	6720
ggtatattta	aataaggaat	gcattttatt	tatttatttt	tggggggtgg	gttttcatgg	6780
ggaatttttg	gccctgactt	tttttttttt	tttcaatgct	cattccttct	atttttccct	6840
aaatacctcc	ttttactgac	ttcccatgtc	tgcctctatt	actgtgttta	cttgaaacag	6900
ctgtatttcc	tagcaggctc	cacctcatt	atgtaagggtg	gtcttaaccc	tttttaggac	6960
tgctgaaaag	aaaggaaaaa	caaggggtgg	aggcattccc	agagagctca	tctggaccac	7020
tgctgatcac	aagctagatg	gctgtagagg	gtgccctggc	actgtgctga	gtccccctg	7080
ctctccgttc	ttcattgttc	tccatccttg	aattcaaata	agccttgcca	aggttggatg	7140
ctcatgttgg	gaatcctcta	cctctctgct	ctgcaggcct	ggacggtgat	ctgtaactac	7200
tgtgactgct	ggcctgtcaa	gaggctaacc	tttcttcccc	actcactgtg	gtcttcatag	7260
ttgtgttgtc	agtaccatgt	ttgatacagt	gaaacctgtg	aaaaaaattg	gccaaagcgt	7320
gcatgattag	agccttctgt	actgcgtgga	cagagaagat	aggaaaatgt	ggcactagag	7380
ccagactctg	gggcccaaag	cccgtttctg	tcacctacta	gctggatggg	cctcagtttt	7440
cccatttgca	aaatgggaat	aataataata	ctcccttcaa	aggatgctgt	attaatccac	7500
ataggctgcc	tggaaaccaag	ggcacccctc	atcaatatcc	ctattgttat	tatggtcaaa	7560
agtcttactg	agtgtagacc	tcctatcaga	gcatgatcag	gatgaagctt	cattaagaaa	7620
aatacagatc	gtcagcgttg	gaagagggtcc	atttgtccaa	gttccaacca	cacgaagggt	7680
ggtcttccat	cagcatgatt	taggggaagg	tggtcagtta	gcctcctttg	cttgatgata	7740
tctagtgatg	aggagctcag	ttcttcttaa	agcaatttat	tccattaaaa	aaaccacaat	7800
cctaataaga	aaatgttctt	tgtgtgggga	ttggacttat	ctctcattga	ttgttgtaac	7860
ccagagcatg	tataatcttt	tttccaaatg	acagggtttc	aaaagtctta	ttgctgtggg	7920
gtttctcacc	accattttac	cggagtctcc	ttaattgcct	caactattct	gtatgtggta	7980
cagtttgggc	ataggcctcg	tactccatcc	atagttctct	tcctctaaat	aggttccaat	8040
cttcttggac	tgtattagtt	agaaggagac	cttccatgcc	ttcactgttt	tatttgactt	8100
ctatcagcca	gcgcattcaa	aagaaccttt	tcactttgga	cagccacagc	cctgggtagg	8160
ctcattttga	ccaagctgcc	tgacatcccc	atatctcccc	agtcttccct	gctgttagct	8220
tgttgtcccc	tcttctagac	ttgtgcagtt	gactttttgg	agtctaagtg	caacactttg	8280
catttatcct	aattaaactt	tggcaaatca	tttcatttca	tcagcttttc	aggagcattt	8340

tctatttcga	tttccctcatc	tagcaattaa	ctactccttt	ccccatctcc	cactatttat	8400
ttcctctgca	attttaaatga	gcttgcccta	tggatcttta	tccaagttgt	caatataatc	8460
agcagagttc	tctgtgcatt	tttttcaaaa	tctttctaca	atctggcatg	tggattacat	8520
aaatatattg	ccccgttctt	tccggctggg	atggaaaaaa	atgttgaggt	cttcttggct	8580
tgtagcatct	tctttccctg	gggttctgtt	ggttcatatt	ttctctggaa	taatttccta	8640
ttaatgctta	attcttcagc	ttgctaaatt	ttctctatac	tcttggtttc	tcatggaact	8700
ttccataatg	acttttagctt	cattttttgtc	ctatttaggt	agtaccacaa	gtctcaccaa	8760
cacaggatat	gacgcagtga	tgtgtgtgta	tgttgaatgt	gtatgtatat	gtgtgttatt	8820
ctctcctggg	aaaaagttca	gcctgaggga	ttgagccttt	ctgccagtag	cagagctcag	8880
gtagcttcag	gttttttaaac	acagtgattt	cccttagcat	cttgggtaca	cattggcatc	8940
gggcacattt	tctggagtag	ttctgggaac	agacatgatg	aagaatgaag	cataggggac	9000
cagggcctac	aggggtcccca	agcctctgta	aacgacaaca	acaaccatca	ccacaacaat	9060
agctggcatt	tattgagcct	ttcttttgtgc	ctggcactgc	tcttacactt	tacatgcgtg	9120
gagtcatttc	ctatttgaag	agttatgtga	agtaggcagg	actgtctgca	ttttatagat	9180
gtggcaacta	cgtcagagag	gtgaaataac	atccccagta	aggaacagga	gaggcagggt	9240
tcatccagcc	aggctggctc	cagaggctgc	actccaactc	ccagtcatgt	catcccttcc	9300
agaatctttc	aagtcagcct	ccttttctgt	cttctaaact	ctattctcaa	gtaacaacta	9360
gaagaagaca	aacatgatga	gttcaactta	aatcaaagag	ccctgttcg	aggcaaagca	9420
tcaagaagaa	tgtcaatgat	gtgatctgga	cacctgggtga	aacagagcca	tcatgtccaa	9480
tttggggaaa	taggtggcct	ttgtattgga	gcgtgaagac	taatgggatc	cctgtgcgta	9540
gaaatgggaa	cgtggtacag	tcacagaaat	tcatgattag	atgctcctga	gcccactta	9600
aatgatggg	agctgcactt	tgggaagttt	tatctcatgg	ggatgtttag	aacagaatcc	9660
aatcttagg	aaaatatctc	catggtatgt	gtccactaac	tgttttttaa	atctctgggt	9720
tgaggggata	caccctccaa	gagtagttct	gatgaacctt	gctgaataat	atcttccgcc	9780
tcaagcatct	actcaaagt	cggcaggagt	catcttccct	tgcagttaga	tgcaccactt	9840
gctttctctt	agccgggatc	tctgggctcc	tcccaccctg	gcatcagggt	ttgttccaac	9900
aggatgtaca	taagatgtat	cctggctgga	gtcgagtgtg	actgcactta	tcacggccat	9960
atcactgctt	gtgtgggctc	agactcctct	tctcttgtcc	taactgccaa	tctggttcct	10020
gaccctgat	tcattccgca	ctttggcagc	agtgtatcct	gtggctcctg	aaagtctgcc	10080
agcacactta	accacccacc	ttgtctacct	cttgggtttt	tctacctctc	tagctcctgt	10140
ctgttaccag	tcatatccat	tctttgccct	agcacgtgcc	ctagtgtatt	ccctagtgtg	10200
caccctagcg	tatgccctag	catgtgccct	agcgtgtgcc	ctagtgggtg	ccatagcatg	10260
tgccccagtg	tatgccctag	cgtgtgccct	agtggttgcc	atagcatgtg	ccccagtgtg	10320
tgccctagtg	tgtgcccttag	cgtgtgccct	agcatatgcc	ctagtgcgtg	ccctagtgcg	10380
tgccccagca	tgtgccctag	cgtatgccct	agtgcgtgcc	ctagcatttg	ccctagcata	10440
tgccccgcac	gtgccctagt	atatgcccta	gtgtatgtcc	tagcatgtgc	cctagtgcgc	10500
accctagtgt	gtgccctagc	gtatgcccta	gtatgcgccc	tagtatatgc	cctagcgcac	10560
gcactagtgc	gtgccctagt	atgtacccca	gtgtatgtcc	tagcgtgtgc	cctagcatgt	10620
gccctagtgc	gcaacctagt	gtgtgcccca	gtgtatgccc	tagtgtgtgc	cctagtatat	10680
gccctagcgt	gtgccctagc	acatgtacta	gtgcgtgccc	tagcatatgc	ccagtgatat	10740
gccctagcgt	gtgcccttagc	atgtgccctg	gtgcgcgccc	tagcgtgtgc	cctagcatat	10800
gccctaatat	gtgtcccagc	atgtgcccta	gcatgtgccc	tagtgcgcac	cctagcgtgt	10860
gccctagcat	atgtcctagt	gcacacccta	gcatatgccc	tagcatgtgc	cctagcatat	10920
ttcctagtgt	gtgccctggc	gtatgcccta	gtgcatcccc	gagtgtgtgc	cctggcgtat	10980
gccctagtgt	acgttctagc	atatgtccta	gtgtgtgccc	tggcgtatgc	cctaattgtac	11040
gttctagcat	attccctagt	gtgtgcccta	gtgtatgccc	tagtgtgtgc	cctagcatat	11100
tccttagtgt	gtgcccttagc	gtatgccctg	gtgtatgttc	tagcatatgc	cctagtatgt	11160
gccctagcat	atgccctagt	gtgtgcccta	gtgaatgccc	taactcagggt	atgtctgcat	11220
gctgtggagt	ccatgatcct	cttctaactg	gagttttatg	acttgaccat	agaattgtgc	11280
atgtttgcat	ctctccctga	gctttagcta	ctcctggctc	ctgccttaat	ccttctagct	11340
tggcttcttg	ccctctactg	ccctctatgt	attctccata	gccttagtat	tgaatttgga	11400
ctgtcaccat	cagaacccca	ggtcctgaaa	ttggatttca	tggcctggac	cttcactgga	11460
gactgcagac	ttgcaagaac	tcagagttct	gccctggaaa	caacctcaga	cttcgtcttt	11520
atggccatct	gaaatctttt	atcatgtcca	gggtagcatg	taaaagtgcc	ccagggctgg	11580
actctataaa	tgatgaatta	cttagacata	ctcctgaact	ccctgtatcc	caaataggac	11640
agatcatttt	gtaattaaaa	agcgcagcag	tgatgatctc	attggagagc	tgtcctgttc	11700
aataatgtgt	tgcagaaatt	tctggactat	ctagtacttt	gctgacattc	tttctctcct	11760

cttcttctct	ctccagctct	agaatgtagg	tagaaagtgt	tctgagtatg	gggattctaa	11820
gtggaattag	tgagaagcca	agggggagta	caatttggat	gtaagccgaa	atgagtagaa	11880
agacctaggc	tgaatcctgg	cttctgtcac	tttctaactg	cccgacctgt	ctgagtacct	11940
ttgcggtctc	catagtctca	tctataacct	ttggaatggg	agaaataaca	ctcatctcag	12000
ggggctgatg	caaggtttaa	atgagatcag	atgtctccaa	atgccttcta	aatttagtgc	12060
tatgcgaata	ccttaatgag	tccaccacaca	atatctgaat	tgaaccacta	aatcctgtat	12120
ctggaagacg	atcaggggat	attttagaag	ctttcattta	cagatgaaga	aactcaggga	12180
gctccaaagc	cttgctcaga	gtcacccatg	tcttcaaact	cttgttccag	tttccttttc	12240
atttaacaag	atgcatcttt	tacaaattaa	aatataacct	cataccagcc	atgtcagcag	12300
cttaaccagg	tggagtttag	aggactgggt	aattaataag	tgacagtgtc	caagacagta	12360
ggaccaaata	agggaatcca	tgaaggatgg	agtcatttaa	aggggccatt	tattgagtgt	12420
ctaccacaat	gaataaagca	agtgaatgt	tctggttaact	agaacagttc	aaactaactt	12480
caaagttagt	ctggactgtc	tctccctcta	aatgactgac	aaggcaaagg	ctaccatgct	12540
aggttcagag	cagggagatt	tatgggttgg	gagaaatgct	agaaccatga	aggatgtagc	12600
accaaaccct	caggaatcat	tgatgaaagc	aagccccctc	atccctttta	gtgggtacaa	12660
atatgtagaa	agcctcccac	atcataaaaa	aatagtacaa	gtggaattaa	aaaaaaactc	12720
aagggggaaa	tattaatctg	agaacaattg	tatctgagaa	agcattcaag	tatgcctctg	12780
cagctagctg	gcaaacagca	caagtctctg	attttattag	agttctaact	ctgtgtagaa	12840
cactgacctt	atttgagaag	catttcataa	acactgacac	acagcacagc	agcatttgag	12900
gccatgagga	gatacagggc	cttcttttag	gggccagctt	cccttccctt	cctcggtctg	12960
aagggacccc	taggacattg	tttccctgag	tggtaatatc	tttatttttc	tctcttaggt	13020
ttaactcagc	aggaggaatt	ttcctagggg	aaaatgaggg	agggggattt	ggaataaaat	13080
ttgtactttg	ggcaagtttg	cctaagcatg	gggtaggcga	tggggaagac	cctgctctgg	13140
gagaaagggg	ctaagaacct	tactttggcc	agtggagttt	ctttttggag	atctcacctg	13200
gtgcctggag	acctatgctg	tggctgtgtc	agaggcaggt	tctcaggcag	cattcaccag	13260
gtcctttgga	atgcaagact	tgtggcttgc	aaccgccctg	agaaacgcgt	ccaccacatc	13320
ccctcctgct	agaagctggc	acctcccttt	ccatctgctg	ccagcgtaca	agttctgaat	13380
ttgtgccaca	gaacttggtt	ctgttcctcc	ccctcttggt	ggcttcccta	gccaagagat	13440
tttcaggctt	ttgaggtatc	actggagatc	atctggtcta	ctccctcccc	actgatctca	13500
acccatctcc	aaagggaaat	gcattagaaa	ggtcaccaga	gaggacctca	gcttcctggt	13560
gtgggtctgcc	cttatgaaaa	ggtgcttcca	tttctgcctc	atcctgtgca	aagatcatgc	13620
agagccatgg	gaagcctctg	ccaatctggg	aagctaggga	gacagaagag	ggaccacatc	13680
tagtacaaaa	aaaaataggg	aatcatgtgg	aagcagaggg	gagaggcacc	agatgggtga	13740
ctcgggatgg	cagatcatat	cctgagggct	ctcagcacca	agcctgcagc	ttatttcgag	13800
tctagagagg	gaagatccca	gctgaagaaa	acggcaaggg	aaggaaacact	gggaaccagg	13860
actggagcag	gaatccaaaa	atgggaaggc	cagtgtgctt	atgggagctt	ttaatgactc	13920
tagttcccta	ccaacacccc	tccccttcta	attgcttcat	agcacaagat	ggtaaccaat	13980
ctgctctgtt	tactctgttt	aggcatacat	tttagtactt	tctgaaacat	ttcccataag	14040
cttccccctg	cogtgtgccc	tccttgtaaa	ttctagaaat	tttgcaaaga	cctaagtctc	14100
ctctgggttc	tttcttgact	ggagctgcat	gctgattcaa	gccatattca	gtcaggaagc	14160
tctcttcccc	tctttaaaac	aagaaacatc	ttcttccaag	aagactgcac	tacagttttc	14220
tttgtctgtg	ttgctaacga	acaaagaggc	aacagcattt	cacgagcaga	gcagggctga	14280
tagcacctct	tgccaaatgt	gactgtgtgt	agttgtgtgg	ggggaaaata	gctttgtcga	14340
gaggagggcc	gagggaggcg	gctctgggga	atttttagca	actgcagcat	ggtgtagtgg	14400
aaagaa						